

*S. edule* accessions\* used in the present study and its fruit traits

Sl. No.	Accession number	Collection location	Shape	Mature fruit colour	Spine density	Longitudinal furrow depth	Reticulation
1	SEC-01	Sikkim	Round	Whitish	None	Intermediate	None
2	SEC-02	Sikkim	Ovoid	Light green	None	Very superficial	None
3	SEC-03	Sikkim	Subpyriform	Light green	Very low	Very superficial	Very little
4	SEC-04	Sikkim	Ovoid	Light green	Intermediate	Very superficial	Very little
5	SEC-05	Sikkim	Round	Dark green	Very high	Very superficial	None
6	SEC-06	Assam	Subpyriform	Green	Very low	Intermediate	Very little
7	SEC-07	Assam	Subpyriform	Light green	None	Intermediate	None
8	SEC-08	Meghalaya	Pyriform	Green	Very low	Very superficial	None
9	SEC-09	Meghalaya	Ovoid	Green	None	Intermediate	Very little
10	SEC-10	Manipur	Ovoid	Light green	Very low	Intermediate	Very little
11	SEC-11	Manipur	Ovoid	Green	Intermediate	Very superficial	None
12	SEC-12	Manipur	Subpyriform	Green	Very low	Intermediate	None
13	SEC-13	Manipur	Ovoid	Dark green	Very low	Very superficial	Very little
14	SEC-14	Manipur	Subpyriform	Light	Very low	Very superficial	None

			m	green			
15	SEC-15	Manipur	Ovoid	Light green	Intermediate	Very superficial	Very little
16	SEC-16	Manipur	Round	Green	None	Very deep	None
17	SEC-17	Manipur	Subpyriform	Light green	None	Very superficial	None
18	SEC-18	Manipur	Ovoid	Whitish	None	Intermediate	Very little
19	SEC-19	Mizoram	Subpyriform	Green	Very low	Very superficial	Very little
20	SEC-20	Mizoram	Pyriform	Dark green	Very low	Very superficial	Very little
21	SEC-21	West Bengal	Subpyriform	Green	None	Very deep	Very little
22	SEC-22	West Bengal	Ovoid	Green	None	Very superficial	Very little
23	SEC-23	Chhattisgarh	Subpyriform	Light green	None	Intermediate	None
24	SEC-24	Andhra Pradesh	Ovoid	Light green	Very low	Intermediate	Very little
25	SEC-25	Andhra Pradesh	Ovoid	Light green	Very low	Intermediate	None
26	SEC-26	Andhra Pradesh	Subpyriform	Green	Very low	Very superficial	Very little
27	SEC-27	Karnataka	Ovoid	Green	Very low	Intermediate	Very little
28	SEC-28	Karnataka	Ovoid	Green	None	Intermediate	Very little
29	SEC-29	Karnataka	Subpyriform	Green	Very low	Intermediate	Very little
30	SEC-30	Tamil Nadu	Subpyriform	Light green	Very low	Very superficial	None

31	SEC-31	Tamil Nadu	Ovoid	Light green	Very low	Very superficial	Very little
32	SEC-32	Tamil Nadu	Pyriform	Light green	Very low	Very deep	Very little
33	SEC-33	Tamil Nadu	Subpyriform	Green	None	Intermediate	Very little
34	SEC-34	Tamil Nadu	Ovoid	Green	Very low	Very superficial	Very little
35	SEC-35	Tamil Nadu	Ovoid	Light green	Intermediate	Intermediate	None
36	SEC-36	Kerala	Ovoid	Green	Intermediate	Intermediate	None

cont.

Accession number	Fruit cross section profile	Spine distribution	Size of base spine	Flexibility of spine	Furrows	Depth of furrows	Ridges
SEC-01	Round	None	None	None	Long, total length	Medium	Medium
SEC-02	Round	None	None	None	Short distal	Superficial	Superficial
SEC-03	Flattened	Proximally	Small	Flexible	Short distal	Superficial	Superficial
SEC-04	Oval	Covering the entire plant	Small	Flexible	Short distal	Superficial	Superficial
SEC-05	Round	Covering the entire plant	Small	Hard	Long, total length	Superficial	Superficial

SEC-06	Round	Covering the entire plant	Small	Flexible	Short distal & proximal	Medium	Medium
SEC-07	Oval	None	None	None	Long, total length	Medium	Medium
SEC-08	Oval	Proximally	Small	Flexible	Short proximal	Superficial	Superficial
SEC-09	Round	None	None	None	Long, total length	Medium	Medium
SEC-10	Round	Proximally	Small	Flexible	Long, total length	Medium	Medium
SEC-11	Oval	Covering the entire plant	Small	Flexible	Short distal	Superficial	Superficial
SEC-12	Round	Proximally	Small	Flexible	Long, total length	Medium	Medium
SEC-13	Round	Proximally	Small	Flexible	Long, total length	Superficial	Superficial
SEC-14	Round	Covering the entire plant	Small	Flexible	Short distal	Superficial	Superficial
SEC-15	Round	Covering the entire plant	Medium	Flexible	Long, total length	Superficial	Superficial
SEC-16	Oval	None	None	None	Long, total	Deep	Deep

					length		
					Long,		
SEC-17	Oval	None	None	None	total	Superficial	Superficial
					length		
					Long,		
SEC-18	Oval	None	None	None	total	Medium	Superficial
					length		
		Covering			Long,		
SEC-19	Round	the entire	Small	Flexible	total	Superficial	Superficial
		plant			length		
		Covering			Long,		
SEC-20	Round	the entire	Small	Flexible	total	Superficial	Superficial
		plant			length		
					Long,		
SEC-21	Round	None	None	None	total	Deep	Deep
					length		
					Long,		
SEC-22	Oval	None	None	None	total	Superficial	Superficial
					length		
					Long,		
SEC-23	Round	None	None	None	total	Medium	Superficial
					length		
		Covering			Long,		
SEC-24	Round	the entire	Small	Flexible	total	Medium	Medium
		plant			length		
					Long,		
SEC-25	Oval	Proximally	Small	Flexible	total	Medium	Medium
					length		
		Covering			Long,		
SEC-26	Round	the entire	Small	Flexible	total	Superficial	Superficial
		plant			length		

SEC-27	Flattened	Covering the entire plant	Small	Flexible	Long, total length	Medium	Medium
SEC-28	Round	None	None	None	Long, total length	Medium	Medium
SEC-29	Oval	Covering the entire plant	Small	Flexible	Long, total length	Medium	Medium
SEC-30	Oval	Covering the entire plant	Small	Flexible	Short distal	Superficial	Superficial
SEC-31	Oval	Covering the entire plant	Small	Flexible	Long, total length	Superficial	Superficial
SEC-32	Round	Proximally	Small	Flexible	Long, total length	Deep	Deep
SEC-33	Round	None	None	None	Long, total length	Medium	Medium
SEC-34	Oval	Covering the entire plant	Small	Flexible	Long, total length	Superficial	Superficial
SEC-35	Oval	Covering the entire plant	Small	Flexible	Long, total length	Medium	Medium
SEC-36	Round	Covering the entire plant	Small	Flexible	Long, total length	Medium	Medium

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\**Sechium edule* accessions